## Listing of Claims

## 1. (Canceled)

- (Currently amended) <u>A substantially purified salivary P. ariasi polypeptide The polypeptide of claim 1</u>, wherein the polypeptide comprises;
- a) an amino acid sequence at least 8095% identical to an amino acid sequence set forth as SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:21, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:33, SEQ ID NO:37, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:43, SEQ ID NO:45, or SEQ ID NO:47, SEQ ID NO:47
- b) a conservative variant of the amino acid sequence set forth in part (a)as SEQ ID NO: 11[[,]];
- c) an immunogenic fragment comprising at least fifteen consecutive amino acids of the amino acid sequence set forth in part (a)as SEQ ID NO: 11, that specifically binds to an antibody that specifically binds the amino acid sequence set forth in part (a), respectively as SEQ ID NO: 11; or
- d) the amino acid sequence set forth in part (a) as SEQ ID NO: 11, wherein administration of the polypeptide to a subject produces an immune response to P. ariasi.
- 3. (Currently amended) A substantially purified salivary *P. ariasi* polypeptide The *P. ariasi* polypeptide of claim 2, wherein the polypeptide comprises an amino acid sequence as set forth as SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:33, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:43, SEQ ID NO:45, or SEQ ID NO:47, SEQ ID NO:11, or a conservative variant thereof, wherein administration of the polypeptide to a subject produces an immune response to *P. ariasi*.
- (Currently amended) The P. ariasi polypeptide of claim 3, wherein the polypeptide comprises an amino acid sequence set forth as SEQ-ID-NO:1, SEQ-ID-NO:5, SEQ-ID-NO:5

SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, SEQ ID NO:31, SEQ ID NO:33, SEQ ID NO:35, SEQ ID NO:37, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:43, SEQ ID NO:45, or SEQ ID NO:47.

- 5. (Original) An antigenic fragment of the polypeptide of claim 4.
- (Currently amended) The polypeptide of claim [[1]]<sup>2</sup><sub>2</sub>, wherein the polypeptide comprises an amino acid sequence at least 8098% identical to an amino acid sequence set forth as SEO ID NO: 11-SEO ID NO: 19-SEO ID NO: 39.
  - 7 24. (Canceled)
- 25. (Currently amended) A pharmaceutical composition comprising a therapeutically effective amount of the polypeptide of claim [[1]]2 and a pharmaceutically acceptable carrier.
  - 26. (Canceled)
- 27. (Withdrawn and currently amended) A method for inducing an immune response to a P. ariasi polypeptide in a subject, comprising:

administering to the subject a therapeutically effective amount of the P. ariasi polypeptide of claim [[1]]2, or a polynucleotide encoding the P. ariasi polypeptide, thereby inducing the immune response.

- 28. (Withdrawn) The method of claim 27, wherein the immune response comprises a T cell response.
- 29. (Withdrawn) The method of claim 27, wherein the immune response comprises a B cell response.

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- 30. (Withdrawn) The method of claim 27, wherein the subject comprises a non-human veterinary subject.
  - 31. (Withdrawn) The method of claim 27, wherein the subject is a dog.
  - 32. (Withdrawn) The method of claim 27, wherein the subject is a human.
- 33. (Withdrawn and currently amended) The method of claim 27, wherein the polypeptide comprises an amino acid sequence at least 8095% identical to a the amino acid sequence set forth as SEO ID NO:11-SEO ID NO:45, or SEO ID NO:39.
  - 34. (Canceled)
- 35. (Withdrawn and currently amended) A method for inhibiting a symptom of a Leishmania infection or preventing a Leishmania infection in a subject, comprising administering to the subject a therapeutically effective amount of the P. ariasi polypeptide of claim [[1]]2, or a polynucleotide encoding the P. ariasi polypeptide—of elaim—I, thereby inhibiting the symptom of the Leishmania infection or preventing the Leishmania infection.
- 36. (Withdrawn and currently amended) The method of claim 35, wherein the polypeptide comprises an amino acid sequence at least 8995% identical to a the amino acid sequence set forth as SEO ID NO: 11, SEO ID NO: 19, SEO ID NO: 39.
  - 37 76. (Canceled)
- 77. (New) The polypeptide of claim 6, wherein the polypeptide comprises an amino acid sequence at least 99% identical to an amino acid sequence set forth as SEQ ID NO: 11.
- 78. (New) The polypeptide of claim 77, wherein the polypeptide comprises an amino acid sequence set forth as SEQ ID NO: 11.

- 79. (New) The polypeptide of claim 78, wherein the polypeptide consists of the amino acid sequence set forth as SEO ID NO: 11.
- 80. (New) The polypeptide of claim 4, wherein the polypeptide consists of an amino acid sequence set forth as SEO ID NO: 11.
- 81. (New) A pharmaceutical composition comprising a therapeutically effective amount of the polypeptide of claim 3 and a pharmaceutically acceptable earrier.
- 82. (New) A method for inducing an immune response to a *P. ariasi* polypeptide in a subject, comprising

administering to the subject a therapeutically effective amount of the *P. ariasi* polypeptide of claim 3, or a polynucleotide encoding the *P. ariasi* polypeptide, thereby inducing the immune response.

- 83. (New) The method of claim 82, wherein the immune response comprises a T cell response.
- 84. (New) The method of claim 82, wherein the immune response comprises a B cell response.
- 85. (New) The method of claim 82, wherein the subject comprises a non-human veterinary subject.
  - 86. (New) The method of claim 82, wherein the subject is a dog.
  - 87. (New) The method of claim 82, wherein the subject is a human.
- 88. (New) A method for inhibiting a symptom of a Leishmania infection or preventing a Leishmania infection in a subject, comprising administering to the subject a therapeutically

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effective amount of the *P. ariasi* polypeptide of claim 3, or a polynucleotide encoding the *P. ariasi* polypeptide, thereby inhibiting the symptom of the *Leishmania* infection or preventing the *Leishmania* infection.

89. (New) The method of claim 88, wherein the polypeptide comprises an amino acid sequence at least 95% identical to a the amino acid sequence set forth as SEQ ID NO: 11.

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